

AMENDMENTS TO THE CLAIMS

Please **AMEND** the claims as shown below. This listing of claims will replace all prior versions of claims in the application.

1. (Currently Amended) A feeding pump device of volume tube continually metering type comprising:

a single volume tube ~~[[1]]~~ having a metering volume section ~~[[11]]~~ defined therein;

a dragging mechanism ~~[[2]]~~;

two unilateral inlet valves ~~[[8]]~~ and two unilateral outlet valves ~~[[7]]~~ in two respective ends of an inner wall of the single volume tube thereof respectively; and

a piston (9), ~~wherein the piston (9) is~~ connected to the dragging mechanism ~~[[2]]~~.

2. (Currently Amended) A feeding pump device of volume tube continually metering type of claim 1, wherein a grating ruler ~~[[4]]~~ is set on a moving route of a dragging rod of the ~~mentioned~~ piston ~~[[9]]~~.

3. (Currently Amended) A feeding pump device of volume tube continually metering type of claim 2, wherein the ~~mentioned~~ dragging mechanism ~~[[2]]~~ also includes a servo motor ~~[[22]]~~, a belt gear ~~[[21]]~~, a lead screw ~~[[23]]~~ and a lead screw nut ~~[[25]]~~, which are mechanically connected such that the servo motor ~~[[22]]~~ turns the belt gear ~~[[21]]~~ which rotates the lead screw ~~[[23]]~~, which move the lead screw nut ~~[[25]]~~.

4. (Currently Amended) A feeding pump device of volume tube continually metering type of claim 3, wherein a casing pipe [(6)] connected with the lead screw [(23)] and with the ~~mentioned~~ piston [(9)] is independent of the lead screw [(23)].

5. (Currently Amended) A feeding pump device of volume tube continually metering type of claim 4, wherein the ~~mentioned~~ dragging mechanism [(2)] is a linear motor.